4-Hydroxyquinazoline

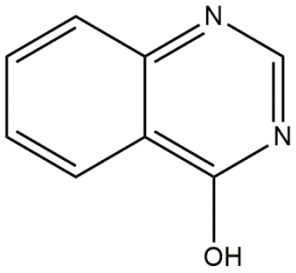
05/21

ALTERNATE NAMES: 4-HQN; Quinazolin-4-ol

CATALOG #:

B3148-100	100 mg
B3148-500	500 mg

STRUCTURE:



MOLECULAR FORMULA: $C_8H_6N_2O$

MOLECULAR WEIGHT: 146.15

CAS NUMBER: 491-36-1

APPEARANCE: White to Light yellow powder

PURITY: ≥ 98%

SOLUBILITY: ~1 mg/ml in DMSO or DMF

DESCRIPTION: 4-Hydroxyquinazoline is an inhibitor of poly(ADP-ribose) polymerase (PARP). It inhibits PARP with an IC_{50} of 9.5 μM. 4-hydroxyquinazoline improves the recovery of high-energy phosphates (ATP, creatine phosphate) and accelerates the reutilization of inorganic phosphate formed during ischemia. The quinazoline structure is an important pharmacophore possessing a wide spectrum of biological properties like antibacterial, antifungal, anticonvulsant, anti-inflammatory, anti-HIV, anticancer and analgesic activities.

STORAGE TEMPERATURE: -20 ºC. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Jafari, E., Khajouei, M.R., Hassanzadeh, F., et al. Quinazolinone and quinazoline derivatives: recent structures with potent antimicrobial and cytotoxic activities. Res Pharm Sci 11(1):1-14 (2016).
2. Halmosi, R., Berente, Z., Osz, E., et al. Effect of poly(ADP-ribose) polymerase inhibitors on the ischemia-reperfusion-induced oxidative cell damage and mitochondrial metabolism in Langendorff heart perfusion system. Mol Pharmacol. 59(6):1497-505 (2001).
3. Banasik, M., Komura, H., Shimoyama, M., et al. Specific inhibitors of poly(ADP-ribose) synthetase and mono(ADP-ribosyl)transferase. J Biol Chem. 267(3), 1569-1575 (1992).

RELATED PRODUCTS:

4-Aminonaphthalimide (Cat. No. B3134)
Sulforaphane (Cat. No. B2801)
AZD-2461 (Cat. No. B3103)
Delphinidin (chloride) (Cat. No. B2807)
Indole-3-carbinol (Cat. No. B2839)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***